



PATENT  
Docket No. 290.00040130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	GUO, Peixuan et al.	)	Group Art Unit:	1635
		)		
Serial No.:	10/539,241	)	Examiner:	Unassigned
		)		
Filed:	16 June 2005	)	Confirmation No.:	2305
		)		
For:	<u>pRNA CHIMERA</u>			

**INFORMATION DISCLOSURE STATEMENT**

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Pursuant to MPEP § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants also wish to bring the Examiner's attention to any pending U.S. Application cited in the 1449 forms submitted herewith, as well as any documents, Office Actions that may include rejections of similar claims, and any provisional U.S. patent applications referenced in the pending U.S. applications or in their file wrappers.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

**Information Disclosure Statement**

Page 2 of 2

Applicant(s): GUO, Peixuan et al.

Serial No.: 10/539,241

Confirmation No.: 2305

Filed: 16 June 2005

For: pRNA CHIMERA

---

This application is a U.S. national stage of PCT/US2003/039950, which is a continuation-in-part application of U.S. Patent Application Serial No. 10/373,612, filed 24 February 2003. In accordance with 37 C.F.R. §1.98(d), copies of documents previously cited by or submitted to the U.S. Patent and Trademark Office in connection with Applicants' prior application listed above, are not included herewith.

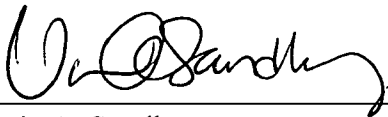
It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

Respectfully submitted  
By

Mueing, Raasch & Gebhardt, P.A.  
P.O. Box 581415  
Minneapolis, MN 55458-1415  
Phone: (612)305-1220  
Facsimile: (612)305-1228  
**Customer Number 26813**

July 19, 2007  
Date

By:   
Victoria A. Sandberg  
Reg. No. 41,287  
Direct Dial (612)305-1226

---

**CERTIFICATE UNDER 37 CFR §1.10:**


"Express Mail" mailing label number: EV 201879405 US

Date of Deposit: July 19, 2007

I hereby certify that the Transmittal Letter and the paper(s) and/or fee(s), as described hereinabove, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to: **Mail Stop Amendment**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

By:  Name: Rachel Pagliardi  
(SMALL ENTITY TRANSMITTAL UNDER RULE 1.10)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b> 	Atty. Docket No.: 290.00040130	Serial No.: 10/539,241
	Applicant(s): Guo et al.	Confirmation No.: 2305
	Application Filing Date: 16 June 2005	Group: 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

## U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		6,448,083 B1	09/10/2002	Larocca et al.			
		2001/0049111 A1	12/06/2001	Windhab et al.			
		2002/0150917 A1	10/17/2002	Weidenhammer et al.			
		2004/0157304 A1	08/12/2004	Guo			
		2005/0266416 A1	12/01/2005	Guo			

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
		WO 93/24133	12/09/1993	PCT				
		WO 99/51755	10/14/1999	PCT				
		WO 02/016596 A2	02/28/2002	PCT				
		WO 02/016596 A3	02/28/2002	PCT				
		WO 2005/003293 A2	01/13/2005	PCT				
		WO 2005/003293 A3	01/13/2005	PCT				
		WO 2005/035760 A2	04/21/2005	PCT				

## OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
		Aggarwal et al., "Biodegradable Alginate Microspheres as a Delivery System for Naked DNA," <i>Can. J. Vet. Res.</i> , 1999; 63:148-152.
		Bailey et al., "Phylogenetic analysis and secondary structure of the <i>Bacillus subtilis</i> bacteriophage RNA required for DNA packaging," <i>J. Biol. Chem.</i> , 1990; 265:22365-70.
		Bazinet et al., "The DNA translocating vertex of dsDNA bacteriophage," <i>Ann. Rev. Microbiol.</i> , 1985;39:109-129.

<b>EXAMINER</b>	<b>Date Considered</b>
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Becerril et al., "Toward selection of internalizing antibodies from phage libraries," <i>Biochem. Biophys. Res. Commun.</i> , 1999; 255:386-393.
		Bergelson et al., "Isolation of a common receptor for Cocksackie B viruses and adenoviruses 2 and 5," <i>Science</i> , 1997;275(5304):1320-1323.
		Bertrand et al., "The expression cassette determines the functional activity of ribozymes in mammalian cells by controlling their intracellular localization," <i>RNA</i> , 1997; 3:75-88.
		Bilbao et al., "57: Targeted adenoviral vectors for cancer gene therapy," in Walden (Ed.) <i>Gene Therapy of Cancer</i> , 1998; Plenum Press: New York, NY: Title page, publisher's page, and pp. 365-374.
		Bjornsti et al., "Morphogenesis of bacteriophage phi 29 of <i>Bacillus subtilis</i> : DNA-gp3 intermediate in in vivo and in vitro assembly," <i>J. Virol.</i> , 1982 Feb.;41:508-517.
		Bjornsti et al., "Morphogenesis of bacteriophage phi 29 of <i>Bacillus subtilis</i> : prohead restoration for DNA-gp3 packaging and assembly," <i>J. Virol.</i> , 1985 March;53(3):858-861.
		Black, "DNA Packaging in dsDNA bacteriophages," <i>Ann. Rev. Microbiol.</i> , 1989;43:267-292.
		Boutin, "Purdue researchers connect life's blueprints with it energy source," February 4, 2003; <i>Purdue News</i> [online], [retrieved on 2003-03-21]. Retrieved from the Internet:<URL:http://www.news.uns.purdue.edu/html4ever/030204.Guo.ATP.html>; 5 pgs.
		Bouvet, "42: Determination of Nucleic Acid Recognition Sequences by SELEX," in Moss (Ed.) <i>Methods in Molecular Biology: DNA-Protein Interactions; Principles and Protocols 2<sup>nd</sup> Edition</i> , 2001; Vol. 148; Humana Press: Totowa, NJ. pp. 603-610.
		Bramlage et al., "HIV-1 as a target for synthetic ribozyme-mediated inhibition of gene expression: site selection and inhibition in cell culture," <i>Nucleic Acids Res.</i> , 2000; 28(21):4059-4067.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance. And not considered, include copy of this form with supporting information to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Brummelkamp et al., "A System for Stable Expression of Short Interfering RNAs in Mammalian Cells," <i>Science</i> , 2002 April 19; 296:550-553.
		Burnell, "Nanotech finds biological inspiration," October 12, 2002; <i>The Washington Times</i> [online], [retrieved on 2003-03-21]. Retrieved from the Internet:<URL:http://www.washtimes.com/upi-breaking/20021012-122115-2395r.htm>; 2 pgs.
		Carazo et al., "Three-dimensional reconstruction of the connector of bacteriophage phi29 at 1.8 nm resolution," <i>J. Mol. Biol.</i> , 1986 December 20; 192(4):853-867.
		Carmichael, "Silencing viruses with RNA," <i>Nature</i> , 2002 July 25; 418(6896):379-80.
		Carrascosa et al., "A precursor of the neck appendage protein of B. Subtilis phage phi 29," <i>FEBS Lett.</i> , 1974; 44(3):317-321.
		Cech et al., "Selecting apt RNAs for NMR," <i>RNA</i> , 1996; 2, 625-627.
		Chang et al., "The structure of an RNA "kissing" hairpin complex of the HIV TAR hairpin loop and its complement," <i>J. Mol. Biol.</i> , 1997 May 30; 269(1):52-66.
		Chen et al., "Magnesium-induced conformational change of packaging RNA for procapsid recognition and binding during phage phi29 DNA encapsidation," <i>J. Virol.</i> , 1997; 71:495-500.
		Chen et al., "Sequential Action of Six Virus-Enclosed DNA-Packaging RNAs during Phage $\phi$ 29 Genomic DNA Translocation," <i>J. Virol.</i> , 1997; 71(5):3864-3871.
		Chen et al., "Sequence requirement for hand-in-hand interaction in formation of pRNA dimers and hexamers to gear phi29 DNA translocation motor," <i>RNA</i> , 1999; 5:805-18.
		Chen et al., "A dimer as a building block in assembly RNA: A hexamer that gears bacterial virus phi29 DNA-translocating machinery," <i>J. Biol. Chem.</i> , 2000; 275(23):17510-16.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with each communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Chowrira et al., "Novel guanosine requirement for catalysis by the hairpin ribozyme," <i>Nature</i> , 1991 November; 354:320-322.
		Ciesiolka et al., "Selection of an RNA domain that binds Zn <sup>2+</sup> ," <i>RNA</i> , 1995; 1:538-50.
		Coburn et al., "Potent and Specific Inhibition of Human Immunodeficiency Virus Type 1 Replication by RNA Interference," <i>J. Virol.</i> , 2002; 76(18):9225-9231.
		Coleman et al., "A novel immune system against bacteriophage infection using complementary RNA (micRNA)," <i>Nature</i> , 1985; 315:601-603.
		Cotten et al., "Ribozyme mediated destruction of RNA in vivo," <i>EMBO J.</i> , 1989; 8(12):3861-3866.
		Cotten et al., "High-efficiency receptor-mediated delivery of small and large (48 kilobase gene constructs using the endosome-disruption activity of defective or chemically inactivated adenovirus particles," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1992; 89:6094-6098.
		Curiel et al., "Adenovirus enhancement of transferrin-polylysine-mediated gene delivery," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1991; 88:8850-8854.
		Dennis, "Small RNAs: the genome's guiding hand?" <i>Nature</i> , 2002 December 19/26; 420(6917):732.
		Dieckmann et al., "Solution structure of an ATP-binding RNA aptamer reveals a novel fold," <i>RNA</i> , 1996; 2, 628-640.
		Doering et al., "Rotary DNA motors," <i>Biophysical Journal</i> , 1995; 69:2256-2267.
		DuraScribe® T7 Transcription Kit/DuraScribe® SP6 Transcription Kit. Product Datasheet. EPICENTRE Biotechnologies: Madison, WI; Available online [Retrieved 2006-04-21]. Retrieved from the Internet: < <a href="http://www.epibio.com/item.asp?id=408">http://www.epibio.com/item.asp?id=408</a> >; 4 pgs.
		Earnshaw et al., "DNA packaging by the double-stranded DNA bacteriophages," <i>Cell</i> , 1980; 21:319-331.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this page with each communication to Applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <i>Nature</i> , 2001 May 24; 411(6836):494-498.
		Ellington et al., " <i>In vitro</i> selection of RNA molecules that bind specific ligands," <i>Nature</i> , 1990; 346:818-22.
		Ellington et al., "Selection <i>in vitro</i> of single-stranded DNA molecules that fold into specific ligand-binding structures," <i>Nature</i> , 1992; 355:850-2.
		Feng et al., "Antiviral activity of a Hammerhead Ribozyme against HBV in HepG2.215 cells," <i>Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao (Shanghai)</i> , 2002; 34(2):204-8. <b>English Language Abstract only.</b>
		Feng et al., "Inhibition of hepatitis B virus by hammerhead ribozyme targeted to the poly(A) signal sequence in cultured cells," <i>Biol. Chem.</i> , 2001; 382:655-60.
		Feng et al., "Inhibition of CCR5-Dependent HIV-1 Infection by Hairpin Ribozyme Gene Therapy against CC-Chemokine Receptor 5," <i>Virology</i> , 2000; 276:271-278.
		Folini et al., "Inhibition of Telomerase Activity by a Hammerhead Ribozyme Targeting the RNA Component of Telomerase in Human Melanoma Cells," <i>J. Invest. Dermatol.</i> , 2000 February; 114(2):259-67.
		Forster et al., "Self-cleavage of virusoid RNA is performed by the proposed 55-nucleotide active site," <i>Cell</i> , 1987 July 3; 50:9-16.
		Gao et al., "Tumor-specific expression of anti- <i>mdr1</i> ribozyme selectively restores chemosensitivity in multidrug-resistant colon-adenocarcinoma cells," <i>Int. J. Cancer</i> , 1999 July 30; 82(3):346-52.
		García et al., "Assembly of the Tail Protein of the <i>Bacillus subtilis</i> phage phi29," <i>Virology</i> , 1983 February; 125:18-30.
		Garver et al., "Boundary of pRNA functional domains and minimum pRNA sequence requirement for specific connector binding and DNA packaging of phage phi29," <i>RNA</i> , 1997; 3:1068-79.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Initial if not in conformance with MPEP 609 and not considered.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Garver et al., "Mapping the Inter-RNA Interaction of Bacterial Virus Phi29 Packaging RNA by Site-specific Photoaffinity Cross-linking," <i>J. Biol. Chem.</i> , 2000; 275(4):2817-24.
		Gibson et al., "Induction of apoptosis in oral cancer cells by an anti-bcl-2 ribozyme delivered by an adenovirus vecor," <i>Clinical Cancer Research</i> , 2000 January; 6(1):213-22.
		Giordano et al., "Intraviron Targeting of a Functional Anti-Human Immunodeficiency Virus Ribozyme Directed to <i>pol</i> ," <i>Virology</i> , 2000 February; 267(2):174-84.
		Gitlin et al., "Short interfering RNA confers intracellular antiviral immunity in human cells," <i>Nature</i> , 2002 July 25; 418(6896):430-4.
		Goila et al., "Sequence specific cleavage of the HIV-1 coreceptor CCR5 gene by a hammer-head ribozyme and a DNA-enzyme: inhibition of the coreceptor function by DNA-enzyme," <i>FEBS Letters</i> , 1998; 436:233-238.
		Grimes et al., "Bacteriophage phi 29 DNA packaging," <i>Adv. Virus Res.</i> , 2002; 58:255-294.
		Guasch et al., "Detailed Architecture of a DNA Translocating Machine: The High-resolution Structure of the Bacteriophage phi29 Connector Particle," <i>Journal of Molecular Biology</i> , 2002; 315:663-676.
		Guo et al., "A defined system for <i>in vitro</i> packaging of DNA-gp3 of the <i>Bacillus subtilis</i> bacteriophage $\phi 29$ ," <i>Proc. Nat'l Acad. Sci. US</i> , 1986; 83, 3505-3509
		Guo, P. et al., "Characterization of the small RNA of the bacteriophage phi29 DNA packaging machine," <i>Nucl. Acids Res.</i> , 1987; 15:7081-90.
		Guo, P. et al., "Prohead and DNA-gp3-dependent ATPase activity of the DNA packaging protein gp16 of bacteriophage phi 29," <i>J. Mol. Biol.</i> , 1987 Sept. 20; 197(2):229-236.
		Guo, P. et al., "A small viral RNA is required for <i>in vitro</i> packaging of bacteriophage phi29 DNA," <i>Science</i> , 1987; 236:690-4.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p><b>ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./</b></p>	



<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, P. "Introduction: Principles, perspectives, and potential applications in viral assembly," <i>Seminars in Virology (Editor's Introduction)</i> , 1994, 5(1):1-3.
		Guo, P. et al., "Inter-RNA interaction of phage phi29 RNA to form a hexameric complex for viral DNA transportation," <i>Mol. Cell.</i> , 1998; 2:149-55.
		Guo, P. et al., "Methods for structural and functional analysis of an RNA hexamer of bacterial virus phi29 DNA packaging motor," <i>Acta Biochimica et Biophysica Sinica</i> , 2002; 34(5):533-543. Available online [retrieved 2007-07-03]. Retrieved from the Internet: < <a href="http://www.abbs.info/fulltxt/eng/34050533.htm">http://www.abbs.info/fulltxt/eng/34050533.htm</a> >; 27 pgs.
		Guo, "Structure and function of phi29 hexameric RNA that drive viral DNA packaging motor: Review," <i>Prog. in Nucl. Acid Res. &amp; Mole. Biol.</i> , 2002; 72:415-472.
		Guo, P. et al., "Construction of a viral DNA-packaging nano-motor of phi29." Oral Presentation Abstract. 10 <sup>th</sup> Foresight Conference of Nanotechnology. Bethesda, MD. October 11-13, 2002. Abstract available online [retrieved 2007-07-02]. Retrieved from the Internet: < <a href="http://www.foresight.org/Conference/MNT10/Abstracts/Guo/index.html">http://www.foresight.org/Conference/MNT10/Abstracts/Guo/index.html</a> >; 2 pgs.
		Guo, P. et al., "Viral Motors," Oral Presentation. Nanotechnology 2003: Big things in Little Packages; American Association for the Advancement of Science; Denver, CO. February 13-14, 2003. Meeting Schedule available online [retrieved 2007-07-02]. Retrieved from the Internet: < <a href="http://www.aaas.org/meetings/2003/MPE_13.shtml">http://www.aaas.org/meetings/2003/MPE_13.shtml</a> >; 3 pgs.
		Guo P., "RNA nanotechnology: engineering, assembly, and applications in detection, gene delivery and therapy," 2005 <i>J. Nanosci. Nanotech.</i> 5(12): 1964-1982.
		Guo, P., "Chapter 13: Bacterial virus phi29 DNA-packaging motor and its potential applications in gene therapy and nanotechnology," in Vo-Dinh (Ed.) <i>Methods in Molecular Biology: Protein Nanotechnology</i> ; Humana Press: Totowa, New Jersey. 2005. Title page and pgs. 285-324.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Indicate copy of this page with box drawn around citation to apply.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, P. et al., "Viral nanomotors for packaging of dsDNA and dsRNA," 2007 <i>Mol. Microbiol.</i> 64(4):886-903.
		Guo, Peixuan "sRNA of Phage phi29 Essential for DNA Packaging," Grant Abstract, Grant Number 1R01GM048159-01 [online]. National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 1996-07-31 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL: <a href="http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=3307636&amp;p_grant_num=1R01GM048159-01&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;">http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=3307636&amp;p_grant_num=1R01GM048159-01&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;</a> ; 2 pgs.
		Guo, Peixuan "sRNA of Phage phi29 Essential for DNA Packaging," Grant Abstract, Grant Number 5R01GM048159-02 [online]. National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 1996-07-31 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL: <a href="http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=3307637&amp;p_grant_num=5R01GM048159-02&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;">http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=3307637&amp;p_grant_num=5R01GM048159-02&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;</a> ; 2 pgs.
		Guo, Peixuan "sRNA of Phage phi29 Essential for DNA Packaging," Grant Abstract, Grant Number 5R01GM048159-03 [online]. National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 1996-07-31 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL: <a href="http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2185637&amp;p_grant_num=5R01GM048159-03&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;">http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2185637&amp;p_grant_num=5R01GM048159-03&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;</a> ; 2 pgs.
		Guo, Peixuan "sRNA of Phage phi29 Essential for DNA Packaging," Grant Abstract, Grant Number 5R01GM048159-04 [online]. National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 1997-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL: <a href="http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2185638&amp;p_grant_num=5R01GM048159-04&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;">http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2185638&amp;p_grant_num=5R01GM048159-04&amp;p_query=&amp;ticket=40535116&amp;p_audit_session_id=249250764&amp;p_keywords=&gt;</a> ; 1 pg.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered for citation of this type with any communication to applicant.</p>	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, Peixuan "Biochemical Study on Phage phi29 pRNA for DNA Packaging," Grant Abstract, Grant Number 2R21GM048159-05A1 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 1999-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL:http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2502527&p_grant_num=2R21GM048159-05A1&p_query=&ticket=40535116&p_audit_session_id=249250764&p_keywords=>; 2 pgs.
		Guo, Peixuan "Biochemical Study on Phage phi29 pRNA for DNA Packaging," Grant Abstract, Grant Number 5R21GM048159-06 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1992-08-01 to 2000-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL:http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2701575&p_grant_num=5R21GM048159-06&p_query=&ticket=40535116&p_audit_session_id=249250764&p_keywords=>; 2 pgs.
		Guo, Peixuan "Stoichiometry Quantification – Complex Biological System," Grant Abstract, Grant Number 1R01GM060529-01 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 2000-05-01 to 2003-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL:http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6038263&p_grant_num=1R01GM060529-01&p_query=&ticket=40535116&p_audit_session_id=249250764&p_keywords=>; 2 pgs.
		Guo, Peixuan "Stoichiometry Quantification – Complex Biological System," Grant Abstract, Grant Number 5R01GM060529-02 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 2000-05-01 to 2003-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL:http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6387064&p_grant_num=5R01GM060529-02&p_query=&ticket=40535116&p_audit_session_id=249250764&p_keywords=>; 2 pgs.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, Peixuan "Stoichiometry Quantification – Complex Biological System," Grant Abstract, Grant Number 5R01GM060529-03 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 2000-05-01 to 2005-04-30 [retrieved on 2007-07-02]. Retrieved from the Internet: <URL:http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6520145&p_grant_num=5R01GM060529-03&p_query=&ticket=40535116&p_audit_session_id=249250764&p_keywords=>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 1R01GM059944-01 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2003-07-31 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=2897282&p_grant_num=1R01GM059944-01&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 5R01GM059944-02 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2003-07-31 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6181986&p_grant_num=5R01GM059944-02&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 5R01GM059944-03 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2003-07-31 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6386619&p_grant_num=5R01GM059944-03&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 2 pgs.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\* Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 5RO1GM059944-04 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2005-08-31 [retrieved on 2003-03-20]. Retrieved from the Internet: <URL:http://www.commonscit.nih.gov/crisp3/CRISP-LIB.getdoc?textkey=6526211>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 3RO1GM059944-04S1 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2005-08-31 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6794869&p_grant_num=3R01GM059944-04S1&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 2RO1GM059944-05A2 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2009-11-30 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=6871533&p_grant_num=2R01GM059944-05A2&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 2 pgs.
		Guo, Peixuan "Structure/Function of phi29 hexameric pRNA," Grant Abstract, Grant Number 5RO1GM059944-06 [online].National Institute of Health - National Institute of General Medical Sciences, project dates 1999-08-01 to 2009-11-30 [retrieved on 2007-07-03]. Retrieved from the Internet: <http://crisp.cit.nih.gov/crisp/CRISP_LIB.getdoc?textkey=7119621&p_grant_num=5R01GM059944-06&p_query=&ticket=40611991&p_audit_session_id=249382720&p_keywords=>; 1 pg.
		Guo, Peixuan "ATP-Induced Conformational Changes of pRNA During Phage 029 DNA Packaging," Grant Abstract, Grant #MCB-9723923 [online]. National Science Foundation, project dates 1997 September 1 to 2001 August 31 [retrieved on 2003-03-20]. Retrieved from the Internet: <URL:http://www.fastlane.nsf.gov/servlet/showaward?award=9723923>; 2 pgs.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Guo, S. et al., "Delivery of siRNA and ribozyme for gene therapy by 35-nm nanoparticles of phi29 motor pRNA," Poster Abstract No. 2641. 206 <sup>th</sup> Meeting of the Electrochemical Society, Inc. 2004 Joint International Meeting: October 3-8, 2004 in Honolulu, HI. Available online [retrieved 2007-07-03]. Retrieved from the Internet: < <a href="http://www.electrochem.org/dl/ma/206/pdfs/2641.pdf">http://www.electrochem.org/dl/ma/206/pdfs/2641.pdf</a> >; 1pg.
		Guo S. et al., "Specific delivery of therapeutic RNA to cancer cells via the dimerization mechanism of phi29 motor pRNA," 2005 <i>Human Gene Therapy</i> 16(9):1097-1109S.
		Guo S. et al., "Construction of folate-conjugated pRNA of bacteriophage phi29 DNA packaging motor for delivery of chimeric siRNA to nasopharyngeal carcinoma cells," 2006 <i>Gene Therapy</i> 13:814-820.
		Ha et al., "Initiation and re-initiation of DNA unwinding by the Escherichia coli Rep helicase," <i>Nature</i> , 2002; 419:638-641.
		Han et al., "Ribozyme-mediated resistance to rice dwarf virus and the transgene silencing in the progeny of transgenic rice plants," <i>Transgenic Res.</i> , 2000; 9:195-203.
		Hendrix, "Symmetry mismatch and DNA packaging in large bacteriophages," <i>Proc. Natl. Acad. Sci. USA</i> , 1978, 75(10):4779-4783.
		Hendrix, "Bacteriophage DNA Packaging: RNA Gears in a DNA Transport Machine," <i>Cell</i> , 1998; 94:147-50.
		Hess et al., "Molecular shuttles based on motor proteins: active transport in synthetic environments," <i>Reviews in Mol. Biotech.</i> , 2001; 82:67-85.
		Hoepflich et al., "Computer modeling of three-dimensional structure of DNA-packaging RNA (pRNA) monomer, dimer, and hexamer of Phi29 DNA packaging motor," <i>J. Biol. Chem.</i> , 2002; 277(23):20794-803.
		Hoepflich et al., "Bacterial virus phi29 pRNA as a hammerhead ribozyme escort to destroy hepatitis B virus," <i>Gene Therapy</i> , 2003; 10(15):1258-1267.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

~~ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./~~

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Homann et al., "Uptake and Intracellular Transport of RNA Aptamers in African Trypanosomes Suggest Therapeutic "Piggy-Back" Approach," <i>Bioorganic &amp; Medicinal Chemistry</i> , 2001 October; 9:2571-2580.
		Hong et al., "Adenovirus type 5 fiber knob binds to MHC class I $\alpha 2$ domain at the surface of human epithelial and B lymphoblastoid cells," <i>EMBO J.</i> , 1997; 16(9):2294-2306.
		Horster et al., "Recombinant AAV-2 harboring gfp-antisense/ribozyme fusion sequences monitor transduction, gene expression, and show anti-HIV-1 efficacy," <i>Gene Ther.</i> , 1999 July; 6(7):1231-8.
		Hua et al., "Coupling of kinesin steps to ATP hydrolysis," <i>Nature</i> , 1997; 388:390-393.
		Huang, "Efficient incorporation of CoA, NAD, FAD into RNA by <i>in vitro</i> transcription," <i>Nucleic Acids Res.</i> , 2003; 31(3):e8.
		Hutvagner et al., "A microRNA in a Multiple-Turnover RNAi Enzyme Complex," <i>Science</i> , 2002 September 20; 297:2056-2060.
		Inoue et al., "Myosin Ixb is a single-headed minus-end-directed processive motor," <i>Nat. Cell Biol.</i> , 2002; 4:302-306.
		Irie et al., "Therapeutic efficacy of an adenovirus-mediated anti-H-ras ribozyme in experimental bladder cancer," <i>Antisense Nucleic Acid Drug Dev.</i> , 1999 August; 9(4):341-9.
		Jacque et al., "Modulation of HIV-1 replication by RNA interference," <i>Nature</i> , 2002 July 25; 418(6896):435-8.
		Jackson et al., "Inhibition of HIV-1 Replication by an Anit-tat Hammerhead Ribozyme," <i>Biochem Biophys Res. Commun.</i> , 1998; 245:81-84.
		Jaeger et al., "Improved predictions of secondary structures for RNA," <i>Proc. Natl. Acad. Sci. USA</i> , 1989; 86:7706-7710.
		Jaeger et al., "Predicting optimal and suboptimal secondary structure for RNA," in Doolittle (Ed.) <i>Meth. Enzymol. Molecular Evolution: Computer Analysis of Protein and Nucleic Acid Sequences</i> Vol 183. Academic Press: San Diego, CA; 1990. Title page and pp. 281-306.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Jayasena "Aptamers: An emerging class of molecules that rival antibodies in diagnostics," 1999 <i>Clin. Chem.</i> 45(9):1628-1650.
		Jiang et al., "Structural basis of RNA folding and recognition in an AMP-RNA aptamer complex," <i>Nature</i> , 1996 July 11; 382:183-186.
		Jiménez et al., "Computer graphic display method for visualizing three-dimensional biological structures," <i>Science</i> , 1986 May 30; 232:1113-1115.
		Kaneda et al., "The induction of apoptosis in HeLa cells by the loss of LBP-p40," <i>Cell Death Differ.</i> , 5 January 1998; 5(1):20-8.
		Kashani-Sabet, et al., "Identification of gene function and functional pathways by systemic plasmid-based ribozyme targeting in adult mice," <i>Proc. Natl. Acad. Sci. USA</i> , 2002, Mar. 19; 99(6):3878-3883.
		Khaled et al., "Controllable self-assembly of nanoparticles for specific delivery of multiple therapeutic molecules to cancer cells using RNA nanotechnology," 2005 <i>Nano. Lett.</i> 5:1797-1808.
		Kinosita, Jr. et al., "F <sub>1</sub> -ATPase: A Rotary Motor Made of a Single Molecule," <i>Cell</i> , 1998; 93:21-24.
		Kitazono et al., "Multidrug Resistance and the Lung Resistance-Related Protein in Human Colon Carcinoma SW-620 Cells," <i>J. Natl. Cancer Inst.</i> , 6 October 1999; 91(19):1647-53.
		Klebba et al., "Retrovirally expressed anti-HIV ribozymes confer a selective survival advantage on CD4+ T cells in vitro," <i>Gene Ther.</i> , March 2000; 7(5):408-416.
		Klug et al., "All you wanted to know about SELEX," <i>Molecular Biology Reports</i> , 1994; 20:97-107.
		Knecht et al., "Antisense RNA inactivation of myosin heavy chain gene expression in Dictyostelium discoideum," <i>Science</i> , 1987 May; 236:1081-1086.
		Kobayashi et al., "Retrovirus-mediated transfer of anti-MDR1 hammerhead ribozymes into multidrug-resistant human leukemia cells: screening for effective target sites," <i>Int. J. Cancer</i> , 11 June 1999; 81(6):944-50.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./



<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Kraus et al., "Cutting Edge: Novel RNA Ligands Able to Bind CD4 Antigen and Inhibit CD4 <sup>+</sup> T Lymphocyte Function," <i>J. Immunol.</i> , 1998; 160:5209-5212.
		Laughrea et al., "Kissing-Loop Model of HIV-1 Genome Dimerization: HIV-1 RNAs Can Assume Alternative Dimeric Forms, and All Sequences Upstream or Downstream of Hairpin 248-271 Are Dispensable for Dimer Formation," <i>Biochemistry</i> , 1996; 35(5):1589-1598.
		Lee et al., "A Highly Sensitive System for the <i>In Vitro</i> Assembly of Bacteriophage phi29 of <i>Bacillus subtilis</i> ," <i>Virology</i> , 1994; 202:1039-1042.
		Lee et al., "In Vitro Assembly of Infectious of Double-Stranded DNA Phage $\phi$ 29 from Cloned Gene Products and Synthetic Nucleic Acids," <i>J. Virol.</i> 1995;69(8):5018-5023.
		Lee et al., "Sequential Interactions of Structural Proteins in Phage $\phi$ 29 Procapsid Assembly," <i>J. Virol.</i> 1995; 69(8):5024-5032.
		Lee et al., "Generation and characterization of hammerhead ribozymes targeting rodent metallothionein-I and -II ribonucleic acid," <i>Toxicology and Applied Pharmacology</i> , 15 December 1999; 161(3):294-301.
		Lee et al., "Functional colocalization of ribozymes and target mRNAs in <i>Drosophila</i> oocytes," <i>FASEB J.</i> , 2001; 15:2390-2400.
		Lewis, "Conference showcases nondevices progress," Nanodot [online], [retrieved on 2003/03/21]. Retrieved from the Internet:<URL:http://nanodot.org/article.pl?sid=02/11/03055252>; 2 pgs.
		Li et al., "Induction and Suppression of RNA Silencing by an Animal Virus," <i>Science</i> , 2002 May 17; 296:1319-1321.
		Lim et al., "Biodegradable, Endosome Disruptive, and Cationic Network-type Polymer as a Highly Efficient and Nontoxic Gene Delivery Carrier," <i>Bioconjugate Chem.</i> , 2002; 13(5):952-957.
		Liu et al., "Ribozyme-mediated suppression of platelet type 12 lipoxygenase in human erythroleukemia cells," <i>Cancer Gene Therapy</i> , 2000 May; 7(5):671-5.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

~~ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH.~~ /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Liu et al., "Episomal expression of a hammerhead ribozyme directed against plum pox virus," <i>Virus Res.</i> , 2000; 68:15-23.
		Liu et al., "Ribozyme ablation demonstrates that the cardiac subtype of the voltage-sensitive calcium channel is the molecular transducer of 1, 25-dihydroxyvitamin D(3)-stimulated calcium influx in osteoblastic cells," <i>J. Biol. Chem.</i> , 2000 March 24; 275(12):8711-8718.
		Macejak et al., "Adenovirus-Mediated Expression of a Ribozyme to c-myc mRNA Inhibits Smooth Muscle Cell Proliferation and Neointima Formation In Vivo," <i>J. Virol.</i> , 1999 September; 73(9):7745-51.
		Mastrangelo et al., "ATP-dependent assembly of double hexamers of SV40 T antigen at the viral origin of DNA replication," <i>Nature</i> , 1989; 338:658-662.
		Mastrobattista et al., "Functional Characterization of an Endosome-disruptive Peptide and Its Application in Cytosolic Delivery of Immunoliposome-entrapped Proteins," <i>J. Biol. Chem.</i> , 2002; 277(30):27135-27143.
		Mat-Arip et al., "Three-dimensional interaction of phy29 pRNA dimer probed by chemical modification interference, cryo-AFM, and cross-linking," <i>J. Biol. Chem.</i> , 2001; 276(31):32575-32584.
		Mathews et al., "Expanded sequence dependence of thermodynamic parameters improves prediction of RNA secondary structure," <i>Journal of Molecular Biology</i> , 1999 May; 288(5):911-940.
		McCaffrey et al., "Gene expression: RNA interference in adult mice," <i>Nature</i> , 2002 July 4; 418(6893):38-9.
		McManus et al., "Gene silencing using micro-RNA designed hairpins," <i>RNA</i> , 2002; 8:842-850.
		Mercatanti et al., "A method for prediction of accessible sites on an mRNA sequence for target selection of hammerhead ribozymes," <i>J. Computational Biol.</i> , 2002; 9:641-653.
		Merlo et al., "Ribozymes Targeted to Stearoyl-ACP delta9 Desaturase mRNA Produce Heritable Increases of Stearic Acid in Transgenic Maize Leaves," <i>Plant Cell</i> , 1998; 10:1603-21.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Mindich, "Precise Packaging of the Three Genomic Segments of the Double-Stranded-RNA Bacteriophage phi6," <i>Microbiol. Mol. Biol. Rev.</i> , 1999; 63:149-160.
		Moll et al., "Engineering of bacterial virus phi29 motor pRNA as self-assembling nanomolecular buliding blocks to form conjugates, supramolecular structures and three dimensional arrays," Poster Abstract No. 2617. 206 <sup>th</sup> Meeting of the Electrochemical Society, Inc. 2004 Joint International Meeting: October 3-8, 2004 in Honolulu, HI. Available online [retrieved 2007-07-03]. Retrieved from the Internet: < <a href="http://www.electrochem.org/dl/ma/206/pdfs/2617.pdf">http://www.electrochem.org/dl/ma/206/pdfs/2617.pdf</a> >; 1 pg.
		Moore et al., "Structural transformations accompanying the assembly of bacteriophage P22 portal protein rings in vitro," <i>J. Biol. Chem.</i> , 2001, 276:6779-6788.
		Murchie et al., "Folding of the Hairpin Ribozyme in Its Natural Conformation Achieves Close Physical Proximity of the Loops," <i>Mol. Cell</i> , 1998 May; 1:873-881.
		Nebel, M.E. "Identifying Good Prediction of RNA Secondary Structure," 2004 <i>Pacific Symposium on Biocomputing</i> 9:423-434.
		Nicklin et al., "Selective Targeting of Gene Transfer to Vascular Endothelial Cells by Use of Peptides Isolated by Phage Display," <i>Circulation</i> , 2000; 102:231-237.
		Nossal et al., "Bacteriophage T4 proteins replicate plasmids with a preformed R loop at the T4 ori(uvsY) replication origin in vitro," <i>Mol. Cell</i> , 2001; 7:31-41.
		Ojwang et al., "Inhibition of human immunodeficiency virus type 1 expression by a hairpin ribozyme," <i>Proc. Natl Acad. Sci. U.S.A.</i> , 1992; 89:10802-10806.
		Ortín et al., "DNA-protein complex in circular DNA from phage phi-29," <i>Nature New Biol.</i> , 1971 December 29; 234(52):275-277.
		Ozaki et al., "Ribozyme-mediated specific gene replacement of the alpha 1-antitrypsin gene in human hepatoma cells," <i>J. Hepatol.</i> , 1999 July; 31(1):53-60.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p><del>ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./</del></p>	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Paddison et al., "Short hairpin RNAs (shRNAs) induce sequence-specific silencing in mammalian cells," <i>Genes Dev.</i> , 2002; 16(8):948-958.
		Panyam et al., "Rapid endo-lysosomal escape of poly(DL-lactide-co-glycolide) nanoparticles: implications for drug and gene delivery," <i>FASEB J.</i> , 2002, 16:1217-1226.
		Paul et al., "Effective expression of small interfering RNA in human cells," <i>Nature Biotechnology</i> , 2002; 20:505-508.
		Pečenková et al., "Bacteriophage B103: complete DNA sequence of its genome and relationship to other <i>Bacillus</i> phages," <i>Gene</i> , 1997; 199:157-63.
		Pečenková et al. "Molecular Phylogeny of $\phi$ 9-Like Phages and Their Evolutionary Relatedness to Other Protein-Primed Replicating Phages and Other Phages Hosted by Gram-Positive Bacteria" <i>J Mol. Evol.</i> 1999;48:197-208.
		Perdue et al., Characterization of Three Species of Nucleocapsids of Equine Herpesvirus Type-1 (EHV-1)," <i>Virology</i> , 1975; 64:187-204.
		Perlman et al., "Adenovirus-encoded hammerhead ribozyme to Bcl-2 inhibits neointimal hyperplasia and induces vascular smooth muscle cell apoptosis," <i>Cardiovasc. Res.</i> , 2000; 45(3):570-578.
		Perriman et al., "Effective ribozyme delivery in plant cells," <i>Proc. Natl. Acad. Sci. USA</i> , 1995; 92:6175-9.
		Pilling et al., "The role of the toxicologic pathologist in the preclinical safety evaluation of biotechnology-derived pharmaceuticals," <i>Toxicologic Pathology</i> , 1999 Nov.-Dec.; 27(6):678-88.
		Plank et al., "The influence of endosome-disruptive peptides on gene transfer using synthetic virus-like gene transfer systems," <i>J. Biol. Chem.</i> , 1994; 269:12918-12924.
		Potter et al., "Construction of Adenovirus for High Level Expression of Small RNAs in Mammalian Cells. Application to a Bcl-2 ribozyme," <i>Mol. Biotechnol.</i> , 2000 June; 15(2):105-114.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

~~ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./~~

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Prevec et al., "A Recombinant Human Adenovirus Vaccine against Rabies," <i>J. Infect. Dis.</i> , 1990; 161(1):27-30.
		Rayment et al., "Structure of the actin-myosin complex and its implications for muscle contraction," <i>Science</i> , 1993; 261:58-65.
		Reid et al., "Characterization of the prohead-pRNA interaction of bacteriophage phi29," <i>J. Biol. Chem.</i> , 1994; 269:5157-62.
		Reid et al., "Probing the structure of bacteriophage phi29 prohead RNA with specific mutations," <i>J. Biol. Chem.</i> , 1994; 269(28):18656-18661.
		"rna: life's original seed and nanotechnology," <i>context weblog: sampling new cultural context</i> [online], [retrieved on 2003/03/21]. Retrieved from the Internet <URL:http://straddle3.net/context/03/en/2003_02_06.html>; 1 pg.
		Rock et al., "In Vitro Assays of Processive Myosin Motors," <i>Methods</i> , 2000; 22:373-381.
		Ryu et al., "Torque-generating units of the flagellar motor of Escherichia coli have a high duty ratio," <i>Nature</i> , 2000; 403:444-447.
		Sassanfar et al., "An RNA motif that binds ATP," <i>Nature</i> , 1993; 364:550-553.
		Sarver et al., "Ribozymes as potential anti-HIV-1 therapeutic agents," <i>Science</i> , 1990 March 9; 247:1222-1225.
		Scholthof, "Rapid delivery of foreign genes into plants by direct rub-inoculation with intact plasmid DNA of a tomato bushy stunt virus gene vector," <i>J. Virol.</i> , 1999, Sep; 73(9):7823-7829.
		Serwer, "Models of Bacteriophage DNA Packaging Motors," <i>J. Struct. Biol.</i> , 2003; 141:179-188.
		Seth, "Mechanism of Adenovirus-Mediated Endosome Lysis: Role of the Intact Adenovirus Capsid Structure," <i>Biochem. Biophys. Res. Comm.</i> , 1994 December 15; 205(2):1318-1324.
		Shu et al., "A Viral RNA That Binds ATP and Contains a Motif Similar to an ATP-binding Aptamer from SELEX," <i>J. Biol. Chem.</i> , 2003; 278(9):7119-7125.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Shu et al., "Construction of phi29 DNA-Packaging RNA Monomers, Dimers, and Trimers with Variable Sizes and Shapes as Potential Parts for Nanodevices," <i>J. Nanosci and Nanotech (JNN)</i> , 2003; 4:295-302.
		Shu, "Only one pRNA hexamer but multiple copies of the DNA-packaging protein gp16 are needed for the motor to package bacterial virus phi29 genomic DNA," <i>Virology</i> , 309(1):108-113 (2003).
		Shu et al., "Construction of a switchable 30-nm phi29 DNA packaging nanomotor driven by six ATP-binding RNAs," Poster Abstract No. 2618. 206 <sup>th</sup> Meeting of the Electrochemical Society, Inc. 2004 Joint International Meeting: October 3-8, 2004 in Honolulu, HI. Available online [retrieved 2007-07-03]. Retrieved from the Internet: < <a href="http://www.electrochem.org/dl/ma/206/pdfs/2618.pdf">http://www.electrochem.org/dl/ma/206/pdfs/2618.pdf</a> >; 1 pg.
		Shultzaberger et al., "Using sequence logos and information analysis of Lrp DNA binding sites to investigate discrepancies between natural selection and SELEX," <i>Nucleic Acids Res.</i> , 1999; 27(3):882-887.
		Simpson et al., "Structure of the bacteriophage $\phi$ 29 DNA packaging motor," <i>Nature</i> , 2000; 408:745-750.
		Smith et al., "The bacteriophage phi29 portal motor can package DNA against a large internal force," <i>Nature</i> , 2001 October 18; 413:748-752.
		Soong et al., "Powering an inorganic nanodevice with a biomolecular motor," <i>Science</i> , 2000; 290:1555-1558.
		Sosa et al., "ADP-induced rocking of the kinesin motor domain revealed by single-molecule florescence polarization microscopy," <i>Nat. Struct. Biol.</i> , 2001; 8:540-544.
		State Key Laboratory of Molecular Biology Institute of Biochemistry and Cell Biology. Chinese Academy of Sciences, [online], [retrieved on 2003/03/21]. Retrieved from the Internet: <URL: <a href="http://www.slmb.labs.gov.cn/newp4.html">http://www.slmb.labs.gov.cn/newp4.html</a> >; 2 pgs.
		Sui et al., "A DNA vector-based RNAi technology to suppress gene expression in mammalian cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 2002; 99(8):5515-5520.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Sun et al., "Controlling bacteriophage phi29 DNA-packaging motor by addition of discharge of a peptide at N-terminus of connector protein that interacts with pRNA," 2006 Nucleic Acids Research 34(19):5482-5490.
		Suzuki et al., "Adenovirus-mediated ribozyme targeting of HER-2/neu inhibits in vivo growth of breast cancer cells," <i>Gene Ther.</i> , 2000 February; 7(3):241-8.
		Svoboda et al., "Force and velocity measured for single kinesin molecules," <i>Cell</i> , 1994; 77:773-784.
		Taira et al. "Construction of Several Kinds of Ribozymes: Their Reactivities and Utilities" <i>Gene Regulation: Biology of Antisense RNA and DNA</i> , New York, 1992:35-54.
		Tao et al., "Assembly of a Tailed Bacterial Virus and Its Genome Release Studied in Three Dimensions," <i>Cell</i> , 1998, 95:431-437.
		Tatusova et al., "BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiol. Lett.</i> , 1999 May 15; 174(2):247-50.
		Trottier et al., "Approaches to determine stoichiometry of viral assembly components," <i>J. Virol.</i> , 1997; 71(1):487-94.
		Trottier et al., "Complete inhibition of virion assembly <i>in vivo</i> with mutant pRNA essential for phage phi29 RNA packaging," <i>J. Virol.</i> , 1996; 70:55-61.
		Trottier et al., "DNA-packaging pRNA as target for complete inhibition of viral assembly in vitro and in vivo," <i>Nucleic Acids Symposium Series</i> , 1997; 36:187-9.
		Trottier et al., "Probing the structure of monomers and dimers of the bacterial virus phi29 hexamer RNA complex by chemical modification," <i>RNA</i> , 2000; 6(9):1257-66.
		Tuerk et al., "Systematic evolution of ligands by exponential enrichment: RNA ligands to bacteriophage T4 DNA polymerase," <i>Science</i> , 1990 August; 249(4968):505-510.
		Vaish et al., "Recent developments in the hammerhead ribozyme field," <i>Nucl. Acids Res.</i> , 1998; 26:5237-42.

<b>EXAMINER</b>	<b>Date Considered</b>
-----------------	------------------------

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Vale et al., "Direct observation of single kinesin molecules moving along microtubules," <i>Nature</i> , 1996; 380:451-453.
		Van Rossenberg et al., "Targeted Lysosome Disruptive Elements for Improvement of Parenchymal Liver Cell-specific Gene Delivery," <i>J. Biol. Chem.</i> , 2002; 277:45803-45810.
		Varambally et al., "The polycomb group protein EZH2 is involved in progression of prostate cancer," <i>Nature</i> , 2002 October 10; 419:624-629.
		Vinuela et al., "Structure and assembly of phage phi29," <i>Philosophical Transactions of the Royal Society of London - Series B: Biological Sciences</i> , 1976; 276:29-35.
		Volpe et al., "Regulation of heterochromatic silencing and histone H3 lysine-9 methylation by RNAi," <i>Science</i> , 2002; 297:1833-1837.
		Wada et al., "Peptide ribonucleic acids (PRNA). 2. A novel strategy for active control of DNA recognition through borate ester formation," <i>J. Am. Chem. Soc.</i> , 2000; 122(29):6900-6910.
		Wang et al., "Retrovirus-mediated transfer of anti-MDR1 ribozymes fully restores chemosensitivity of P-glycoprotein-expressing human lymphoma cells," <i>Human Gene Therapy</i> , 1999 May 1; 10(7):1185-95.
		Wichitwechkarn et al., "Mutant prohead RNAs in the <i>in vitro</i> packaging of bacteriophage phi29 DNA-gp3," <i>J. Mol. Biol.</i> , 1992; 223(4):991-8.
		Wichitwechkarn et al., "Prohead RNA of bacteriophage phi29: size stoichiometry and biological activity," <i>Nucl. Acids Res.</i> , 1989; 17:3459-68.
		Wikoff et al., "Virus assembly: Imaging a molecular machine," <i>Current Biology</i> , 1999, 9(8):R296-R300.
		Wong et al., "Allosteric effects of nucleotide cofactors on Escherichia coli rep helicase-DNA binding," <i>Science</i> , 1992; 256:350-355.
		Wyszko et al., "The specific hydrolysis of HIV-1 TAR RNA element with the anti-TAR hammerhead ribozyme: structural and functional implications," <i>International Journal of Biological Macromolecules</i> , 2001; 28:373-380.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./



<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Xiao et al., "Binding of pRNA to the N-terminal fourth amino acids of connector protein of bacteriophage phi29," 2005 <i>Nucl. Acids Res.</i> 33(8):2640-2649.
		Yant et al., "Transposition from a gutless adeno-transposon vector stabilizes transgene expression in vivo," <i>Nat. Biotechnol.</i> , 2002 October; 20(10):999-1005.
		Yu et al., "RNA interference by expression of short-interfering RNAs and hairpin RNAs in mammalian cells," <i>Proc. Natl. Acad. Sci U.S.A.</i> , 2002; 99(9):6047-6052.
		Zern et al., "A novel SV40-based vector successfully transduces and expresses an alpha 1-antitrypsin ribozyme in a human hepatoma-derived cell line," <i>Gene Ther.</i> , 1999 January; 6(1):114-20.
		Zhang et al., "Circularly Permuted Viral pRNA Active and Specific in the Packaging of Bacteriophage phi29 DNA," 1995 <i>Virology</i> 207:442-451.
		Zhang, et al., "Chemical modification patterns of active and inactive as well as procapsid-bound and unbound DNA-packaging RNA of bacterial virus Phi29," <i>Virology</i> , 2001 March 15; 281:281-93.
		Zhang, et al., "The proximate 5' and 3' ends of the 120-base viral RNA (pRNA) are crucial for the packaging of bacteriophage phi29 DNA," <i>Virology</i> , 1994; 201:77-85.
		Zhang et al., "Conformation of the helical structure of the 5'/3' termini of the essential DNA packaging pRNA of phage phi29," <i>RNA</i> , 1995; 1:1041-1050.
		Zhang, et al., "Inhibition of phage phi29 assembly by antisense oligonucleotides targeting viral pRNA essential for DNA packaging," <i>Virology</i> , 1995; 211:568-76.
		Zhang et al., "In vitro selection of bacteriophage phi29 prohead RNA aptamers for prohead binding," <i>J. Biol. Chem.</i> , 1998; 273:2947-53.
		Zhang et al., "Use of circular permutation to assess six bulges and four loops of DNA-packaging pRNA of bacteriophage phi29," <i>RNA</i> , 1997; 3:315-323.

<b>EXAMINER</b>	<b>Date Considered</b>
<p>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 290.00040130	<b>Serial No.:</b> 10/539,241
	<b>Applicant(s):</b> Guo et al.	<b>Confirmation No.:</b> 2305
	<b>Application Filing Date:</b> 16 June 2005	<b>Group:</b> 1635
	Information Disclosure Statement mailed: <u>July 19</u> , 2007	

Examiner Initial	Copy Enclosed	Document Description
		Zhang, et al., "Function of hexameric RNA in packaging of bacteriophage phi29 DNA in vitro," <i>Mol. Cell.</i> , 1998; 2:141-147.
		Zilberman et al., " <i>ARGONAUTE4</i> Control of Locus-Specific siRNA Accumulation and DNA and Histone Methylation," <i>Science</i> , 2003 January 31; 299(5607):716-719.
		Zuker, "On Finding All Suboptimal Foldings of an RNA Molecule," <i>Science</i> , 1989 April 7; 244(4900):48-52.

<b>EXAMINER</b>  /Kimberly Chong/	<b>Date Considered</b>  06/21/2010
<small>*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./